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NOTICE OF ALLOWANCE AND FEE(S) DUE

25944 7590 12/30/2009

OLIFF & BERRIDGE, PLC P.O. BOX 320850

ALEXANDRIA, VA 22320-4850

EXAMINER
EVANS, GEOFFREY T
ART UNIT PAPER NUMBER

2852 DATE MAILED: 12/30/2009

| l | APPLICATION NO. | PILENO DATE | PIRST NAMED INVENTOR | 120100 | 7402 | |
|---|-----------------|-------------|----------------------|---------------------|------------------|--|
| ſ | APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |

TITLE OF INVENTION: IMAGE FORMING APPARATUS AND METHOD FOR CONTROLLING WEAR OF A PHOTOCONDUCTOR DRUM

| APPLN, TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO | \$1510 | \$300 | \$0 | \$1810 | 03/30/2010 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT, PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

| appropriate. All further indicated unless correcte maintenance fee notifical | ed below or directed oth | ng the Patent, advance on nerwise in Block 1, by (a | rders and notification of a) specifying a new co | of maintenance fees rrespondence addres | will be s; and/o | mailed to the current r (b) indicating a sepa | correspondence address as arate "FEE ADDRESS" for |
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| OLIFF & BER P.O. BOX 32085 ALEXANDRIA | | /2009 |] S 8 | Ce hereby certify that t states Postal Service ddressed to the Ma ransmitted to the US | rtificat his Fee(with su il Stop PTO (57 | e of Mailing or Trans (s) Transmittal is being fficient postage for fir- ISSUE FEE address (1) 273-2885, on the d | mission g deposited with the United st class mail in an envelope above, or being facsimile ate indicated below. |
| | | | [| | | | (Depositor's name) |
| | | | | | | | (Signature) |
| | | | l | | | | (Date) |
| APPLICATION NO. | FILING DATE | | FIRST NAMED INVENT | OR | ATTC | ORNEY DOCKET NO. | CONFIRMATION NO. |
| 10/580,821 TITLE OF INVENTION | 05/26/2006 : IMAGE FORMING A | PPARATUS AND METI | Kenji Hayashi HOD FOR CONTROLI | ING WEAR OF A F | нотос | 128189 CONDUCTOR DRUM | 7402 1 |
| APPLN, TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE D | E PREV. PAID ISSU | Æ FEE | TOTAL FEE(S) DUE | DATE DUE |
| nonprovisional | NO | \$1510 | \$300 | \$0 | | \$1810 | 03/30/2010 |
| EXAM | INER | ART UNIT | CLASS-SUBCLASS | 7 | | | |
| EVANS, GE | | 2852 | 399-045000 | _ | | | |
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| (A) NAME OF ASSIC | GNEE | | (B) RESIDENCE: (C | TY and STATE OR | COUN | IRY) | ocument has been filed for |
| 4a. The following fee(s): Issue Fee Publication Fee (N | o small entity discount p | | b. Payment of Fee(s): (I A check is enclose Payment by credit The Director is her overpayment, to D | d. card. Form PTO-203 | 8 is atta | ached. required fee(s), any de | |
| | s SMALL ENTITY state | is. See 37 CFR 1.27. | | | | TITY status. Sec 37 Cl | |
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| Typed or printed name | | | | Registration | | | |
| This collection of inform an application. Confident submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223 | ation is required by 37 C tiality is governed by 35 d application form to the ons for reducing this but firginia 22313-1450. DC 13-1450. | FR 1.311. The informatis U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to th O NOT SEND FEES OR | on is required to obtain 1.14. This collection is depending upon the ir e Chief Information Of COMPLETED FORMS | or retain a benefit by estimated to take 12 dividual case. Any c ficer, U.S. Patent and TO THIS ADDRES | the pub minute ommen I Trader S. SEN | lic which is to file (and s to complete, including ts on the amount of times mark Office, U.S. Dep D TO: Commissioner | d by the USPTO to process) g gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450, |

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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



UNITED STATES PATENT AND TRADEMARK OFFICE

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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
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| 10/580,821 | 05/26/2006 | Kenji Hayashi | 128189 | 7402 | |
| 25944 7 | 590 12/30/2009 | | EXAMINER | | |
| OLIFF & BERR | IDGE, PLC | EVANS, GEOFFREY T | | | |
| P.O. BOX 320850 | | ART UNIT | PAPER NUMBER | | |
| ALEXANDRIA, | VA 22320-4850 | | 2852 | | |

DATE MAILED: 12/30/2009

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

 $(application \ filed \ on \ or \ after \ May \ 29, \ 2000)$

The Patent Term Adjustment to date is 442 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 442 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/580 821 HAYASHI ET AL. Notice of Allowability Examiner Art Unit GEOFFREY T EVANS 2852 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 8/7/2009. The allowed claim(s) is/are 1, 4-8, 10-11, and 13-15. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some* c) ☐ None of the: a) 🔯 All 1. A Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. Examiner's Amendment/Comment Paper No./Mail Date 4. T Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material 9. ☐ Other .

Application/Control Number: 10/580,821

Art Unit: 2852

DETAILED ACTION

Allowable Subject Matter

Claims 1, 4-8, 10-11, and 13-15 are allowed.

The following is an examiner's statement of reasons for allowance:

The prior art does not disclose or suggest, "every time a number of continuously image-formed sheets reaches a prescribed number of sheets of the image recording medium, the photoreceptor drum, the developing means and the transfer means are halted for a prescribed period of time, and the prescribed number of sheets and the prescribed period of time are determined as those with which image formation on the image recording medium can be continuously performed by the prescribed number of sheets without the fuser exceeding a prescribed, temperature, wherein the size of the image recording medium is a measure of a printable area of the image recording medium," in combination with the remaining claim elements as set forth in claim 1, and claims 4-5, 7-8, 13, and 15 depending therefrom.

The prior art does not disclose or suggest, "specification means for specifying whether a type of the image recording medium is a first type of predetermined regular size, or a second type of non-regular size, other than the regular size, wherein, when the type of the image recording medium is specified to be the second type by the specification means, the control means controls driving of at least one of the photoreceptor drum, the developing means or the transfer means such that, in the course of the continuous image formation, driving of at least one of the photoreceptor drum, the developing means or the transfer means is halted at least, once; and regular

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size and non-regular size are measures of a printable area of the image recording medium," in combination with the remaining claim elements as set forth in claim 6, and claim 14 depending therefrom.

The prior art does not disclose or suggest, "specifying whether a type of the image recording medium is a first type of predetermined regular size, or a second type of non-regular size other than the regular size, and when the type of the image recording medium is specified to be the second type by the specification means, controlling driving of at least one of the photoreceptor drum, the developing means or the transfer means such that, in the course of the continuous image formation, driving of at least one of the photoreceptor drum, the developing means or the transfer means is halted at least once, wherein regular size and non-regular size are measures of a printable area of the image recording medium," in combination with the remaining claim elements as set forth in claim 10 and claim 11 depending therefrom.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Response to Arguments

Applicant's arguments, see remarks, filed 8/7/2009, have been fully considered and are persuasive. The rejection of claims 10 and 11 has been withdrawn. Examiner agrees that the current amendment places the application in condition for allowance.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to GEOFFREY T. EVANS whose telephone number is (571)272-2369. The examiner can normally be reached on 9 AM - 5 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Gray can be reached on (571) 272 2119. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.usplo.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/David M Gray/ Supervisory Patent Examiner, Art Unit 2852

GTE